

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

Materials, Metallurgy, and Reactor Fuels Subcommittee

Pellet-Clad Interaction Failures during Anticipated Operational Occurrences

March 3, 2009

Rockville, Maryland

- Agenda -

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Time	Topic	Presenter
8:30 am – 8:55 am	<u>Opening Remarks / ACRS Background and Concerns</u> <ul style="list-style-type: none">• Reduction in PCI margin since the 1980's – 1990's• Analytical assessment methods• PCI risk during AOOs after extended power uprates• Background on the PCI failure mechanism	S. Armijo, ACRS
8:55 am – 9:10 am	Staff Introduction	P. Clifford, NRR
9:10 am – 9:40 am	<u>NRC Staff Position</u> <ul style="list-style-type: none">• Current fuel reliability criteria from the SRP• Challenges addressing PCI failures: analytical tools and regulatory framework	P. Clifford (NRR) M. Flanagan (RES)
9:40 am – 9:50 am	Break	
9:50 am – 10:30 am	<u>Experimental Studies of PCI Failures</u> <ul style="list-style-type: none">• Quantifying PCI vulnerability• Demonstrating effectiveness of PCI-resistant designs• PCI time-to-failure data	J. Davies, ACRS Consultant
10:30 am – 12:30 pm	Roundtable Discussion	All

NOTES:

* Please allow time for Committee discussion during each presentation.

* Please provide 50 copies of presentation materials.

Representatives of the nuclear industry and members of the public may provide their views, as appropriate.